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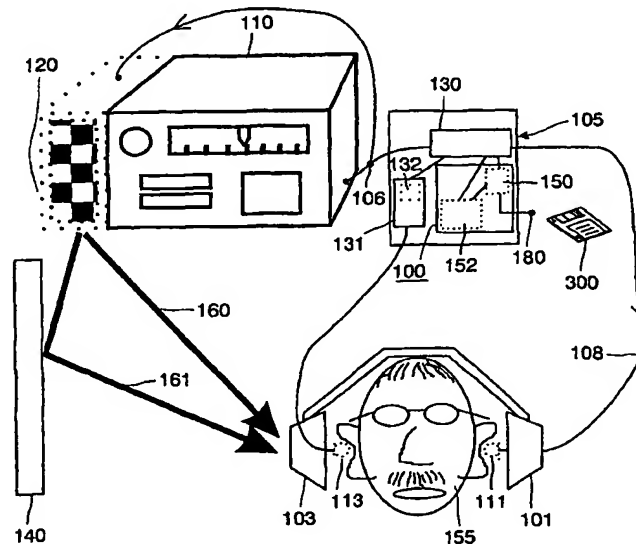
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[Continued on next page]

(54) Title: SOUND REPRODUCTION SYSTEM, PROGRAM AND DATA CARRIER



(57) Abstract: The sound reproduction system comprises a sound production means (101), e.g. a headphone loudspeaker, and an audio processor (105) capable of applying a first head related transfer function (130) to an input audio signal (106) from an audio signal source (110) and capable of delivering an output audio signal (108) to the sound production means (101). The audio processor (105) is arranged to apply the first head related transfer function (108) over a first frequency range and a second head related transfer function (202, 204) over a second frequency range. The second head related transfer function (202, 204) may be modeled by calculating means (152) or selected from a memory (150).



CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/25834 A (VIRTUAL LISTENING SYSTEMS INC ; TUCKER TIMOTHY J (US); GREEN DAVID M () 17 July 1997 (1997-07-17) page 1, lines 5-8 page 3, line 5 - page 4, line 5 page 8, line 3 - page 9, line 20 page 10, line 11 - page 17, line 19 page 18, line 33 - page 20, line 33 page 23, line 15 - page 30, line 29	1-7
X	WO 02/071797 A (BAR ON AMIR ; BE4 LTD (IL); COHEN YUVAL (IL); LEVY HAIM (IL); NAVEH GI) 12 September 2002 (2002-09-12) page 1, lines 1-3 page 3, line 13 - page 5, line 7 page 6, line 8 - page 13, line 8	1-3

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Information on patent family members

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		AU 1527197 A 01-08-1997	
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WO 02071797	A	12-09-2002	CA 2439587 A1 12-09-2002
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